

ABSTRACT OF THE DISCLOSURE

Embodiments of the present invention include prepress workflow methods. The prepress workflow methods include generating N spot color separations from the color source image, wherein N is less than four. The N spot color separations, when
5 superimposed, form a reproduction composite image similar in color to the source image. Alternatively, N non-process color separations obtained from Duotone, Tritone, or Quadtone images may also be employed. The methods may optionally include processing the generated N digital spot color separations to achieve misregistration tolerant printing prior to screening. The methods further include screening the N spot
10 color separations, wherein at least one of the N spot color separations is screened using frequency modulation (FM).